

| BUFFER DATA | | | | | | | | | | | |
|--|---|-----|-----|-----|-----|-----|-----|-----------------------------|-----|-----|--|
| LONGITUDINAL BUFFER SPACE = B | | | | | | | | | | | |
| SPEED (MPH) | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | |
| LENGTH (feet) | 155 | 200 | 250 | 305 | 360 | 425 | 495 | 570 | 645 | 730 | |
| PROTECTIVE VEHICLE WITH TMA ROLL AHEAD DISTANCE | | | | | | | | | | | |
| TYPICAL PROTECTIVE VEHICLE TYPE WITH TMA | TYPICAL PROTECTIVE VEHICLE (WITH TMA) LOADED WEIGHT (LBS) | | | | | | | STATIONARY OPERATION (feet) | | | |
| 4 YARD DUMP TRUCK, SERVICE TRUCK, FLAT BED, ETC. | MINIMUM WEIGHT 15,000 LBS. (MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATION) | | | | | | | 30 MIN. 100 MAX. | | | |
| ROLL AHEAD STOPPING DISTANCE ASSUMES DRY PAVEMENT | | | | | | | | | | | |
| ◊ A PROTECTIVE VEHICLE IS RECOMMENDED REGARDLESS IF A TMA IS AVAILABLE. IF NO TMA IS USED, THE PROTECTIVE VEHICLE SHALL BE STRATEGICALLY LOCATED IN THE FIELD TO SHIELD WORKERS AND NO ROLL AHEAD DISTANCE IS SPECIFIED. REFER TO CHAPTER 1.5.5 FOR ADDITIONAL INFORMATION | | | | | | | | | | | |

| MINIMUM TAPER LENGTH = L (feet) | | | | | | | | | | | |
|---------------------------------|--------------------|-----|-----|-----|-----|-----|-----|-----|----|----|--|
| Lane Width (feet) | Posted Speed (mph) | | | | | | | | | | |
| | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | |
| 10 | 105 | 150 | 205 | 270 | 450 | 500 | 550 | - | - | - | |
| 11 | 115 | 165 | 225 | 295 | 495 | 550 | 605 | 660 | - | - | |
| 12 | 125 | 180 | 245 | 320 | 540 | 600 | 660 | 720 | - | - | |

| CHANNELIZING DEVICE SPACING (FEET) | | |
|------------------------------------|-------|---------|
| MPH | TAPER | TANGENT |
| 60 / 60 | 40 | 80 |
| 35 / 45 | 30 | 60 |
| 25 / 30 | 20 | 40 |

| SIGN SPACING = X (FEET) (1) | | |
|--|----------------|----------|
| RURAL HIGHWAYS | 60/65 MPH | 800± |
| RURAL ROADS | 45/55 MPH | 500± |
| RURAL ROADS & URBAN ARTERIALS | 35/40 MPH | 350± |
| RURAL ROADS, URBAN ARTERIALS RESIDENTIAL & BUSINESS DISTRICTS | 25/30 MPH | 200± (2) |
| URBAN STREETS | 25 MPH OR LESS | 100± (2) |
| ALL SIGNS ARE 48" X 48" BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED. | | |

- (1) All spacing may be adjusted to accommodate interchange ramps, at-grade intersections, and driveways.
- (2) This spacing may be reduced in urban areas to fit roadway conditions.

